

Instructions: Prepare and submit the "Initial Report" on the first Wednesday after a well is spudded or workover operations are started. Daily work prior to spudding should be summarized on the form giving inclusive dates only.

District WESTERN	County or Parish COLUMBIA COUNTY	State OREGON
Field MIST GAS FIELD	Lease or Unit CAVENHAM FOREST INDUSTRIES	Well no. 41-9
Auth. or W.O. no. R46389 API #: 36-009-00188	Title DRILL & EVALUATE	

SHL: 1244' S & 335' W OF NE CORNER, SEC 9, T5N, R4W, WB&M, COLUMBIA COUNTY, OREGON

Operator ARCO OIL AND GAS COMPANY	A.R.Co's W.I. 1.000000	
Spudded or W.O. begun SPUD	Date 10-6-86	Hour 0300 HOURS
		Prior status if a W.O.

Date and depth as of 8:00 a.m. 6:00 a.m. Complete record for each day reported

1/4  
10-6-86 TD: 72' (42') - Drilling (13-3/8" @ 30')  
MUD: 8.8 ppg VIS: 45 PV/YP: 20/14  
MIRU. Accept rig at 0200 hrs, 10-6-86. Attempt to fill conductor with mud, hole will not stay full. Pour 2 sx mud fibre down conductor. Raise mud viscosity while letting mud fibre soak. Spud at 0300 hrs, 10-6-86. Drill 12-1/4" hole from 30' - 72' with full returns. POOH for bit.

1-1/4  
10-7-86 TD: 470' (398') - Testing bradenhead (9-5/8" @ 470')  
MUD: 9.1 ppg VIS: 58 PV/YP: 17/12  
Drill 12-1/4" hole from 72' - 416' with full returns. Drop survey and wipe hole to bit. Circulate while unloading casing. Lost approximately 60 bbls mud. Pump lime and LCM sweep and raise viscosity. Fluid loss appeared to have stopped. Drill 416' - 470'. Made wiper trip. Circulate and condition mud. No apparent mud loss. Pump LCM sweep and POOH to run casing. RU and run 11 jts of 9-5/8" 47# S-95 LTC and 40# K-55 LTC casing with shoe at 470', float collar at 426'. Cement casing with 140 sx 1:1 Howco 1:1 Perlite + 3% CaCl<sub>2</sub> + 2% gel mixed at 11.9 ppg, followed by 64 sx Class G + 3% CaCl<sub>2</sub> mixed at 11.9 ppg. Displace cement and bump plug with 500 psi. Had full returns throughout cement job with 4 bbl cement returns. CIP at 2241 hrs, 10-6-86. WOC. Weld on 9-5/8" SOW x 11" 3M bradenhead. Test weld to 1500 psi.

2-1/4  
10-8-86 TD: 1283' (813') - Drilling (9-5/8" @ 470')  
MUD: 9.1 ppg VIS: 37 PV/YP: 11/10  
NU BOPE and test to 1000 psi. RIH to 343'. Circulate. Finish testing kelly valves to 1000 psi. Circulate and condition mud. POOH. Lay down excess HWDP. Install float and RIH to 426' (top of float collar). Drill float collar and cement to 450'. Circulate hole clean. Test casing to 1000 psi. Pressure bled to 850 psi in 30 min and stabilized. Drill cement, shoe, and new formation to 479'. Circulate and condition mud. Perform pressure integrity test to 12.91 EMW with no leak off. Drill 8-1/2" hole from 479' - 964'. Survey. Drill from 964' - 1283'.

3-1/4  
10-9-86 TD: 2500' (1217') - RU Schlumberger (9-5/8" @ 470')  
MUD: 10.1 ppg VIS: 40 PV/YP: 15/13  
Drilled 8-1/2" hole from 1283' - 1438', hole packed off. Work pipe and regain circulation. Drilled from 1438' - 1460'. Survey. Made wiper trip to bit. Circulate and condition mud. Resurvey. Drilled from 1460' - 1709'. Circulate and survey. Drilled from 1709' - 1771', hole packed off. Work pipe and regain circulation. Drilled from 1771' - 1954'. Circulate and survey. Made wiper trip. Drilled from 1954' - 2500' (TD). Circulate and survey. Made wiper trip to shoe and SLM. Circulate and condition mud. POOH to log. RU Schlumberger.

The above is correct

Signature R. L. THOMAS *R. L. Thomas* Date 10/21/82 Title DISTRICT DRILLING ENGINEER

For form preparation and distribution, see Procedures Manual, Section 10, Drilling, Pages 66 and 67.

Number all daily well history forms consecutively as they are prepared for each well. Page no. /